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20 August 1970

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REQUIREMENTS FOR SPECIAL PURPOSE FACILITIES

GENERAL:

Four Activities (NPIC, Processing, Control and Receiving Dish) comprise a system to be housed in the proposed facilities. The attached Tables list site, building, and utility requirements for each Activity separately and in various combinations. Table A assumes NPIC to work on a single shift basis while Processing, Control and Receiving Dish work three shifts. Table B assumes all Activities working three shifts; the resulting increased productivity from NPIC processes induces an assumed 40% reduction in building and parking requirements. The four Activities may be housed separately or in one building.

BUILDING REQUIREMENTS:

A unique building character results from a mix of a primary light-industrial use with accompanying office space and special purpose rooms which could be accommodated in either single story or multistory buildings. Approximately two-thirds of the gross building area is devoted to Special Purpose Space. The functions to be housed in these spaces generate requirements for a variety of environments comprised of non-typical elements - such as large open spaces, high ceilings, special wall densities (emanations) and room finishes.

There are special requirements for a vibration free structure accompanied by some stringent floor loading due to process equipment.

In addition to the usual air conditioning found in contemporary office buildings, there are requirements for clean air rooms (remove 98% of particles greater than 3 microns), refrigeration vaults, and areas with precise temperature and humidity tolerances - all with low tolerances for allowable HVAC equipment noise and vibration.

The process water system requires water temperature controls and special treatment to control purity before use and neutralization after use. Total domestic and process water consumption will be high.

Required electrical loads will be relatively high with the bulk of the demands from the HVAC systems and the process equipment at 277/440 volts. Adequate emergency generation to supply about 80% of the connected capacity is essential.

Gas, steam and compressed air systems may be required depending on the particular design of the HVAC and process water systems.

Trash collection and disposal requirements are two-fold; both classified and unclassified trash must be processed. Classified trash will be generated in several media and will require more than one method of destruction.

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Perimeter fencing and controlled entrances to the site are required. In addition to fire and intrusion alarm systems, protection against electromagnetic interference and electromagnetic emanation interception is required.

Provision of basic supporting services to the facility is essential. It is highly desirable that water supply, sewage treatment, storm drainage, fire department, ambulance and hospital services be supplied by the host base or nearby municipality. It is expected that basic energy supplies will be purchased from the local economy. Building areas listed in the Tables do not include allowance for generation of primary utilities and services.

SITE REQUIREMENTS:

The Receiving Dish Activity must be located between 150 and 200 air miles from coastlines. Nearness of NPIC to Washington, D. C. is desirable, but not essential. Communications problems and costs between the Activities will increase with the distances between them. Possible site combinations are:

- | | |
|------------------|--------------------|
| 1. N+P+C -- R | (2 separate sites) |
| 2. N+P -- C+R | (2 separate sites) |
| 3. N -- P+C+R | (2 separate sites) |
| 4. N -- P+C -- R | (3 separate sites) |
| 5. N+P+C+R | (1 site) |

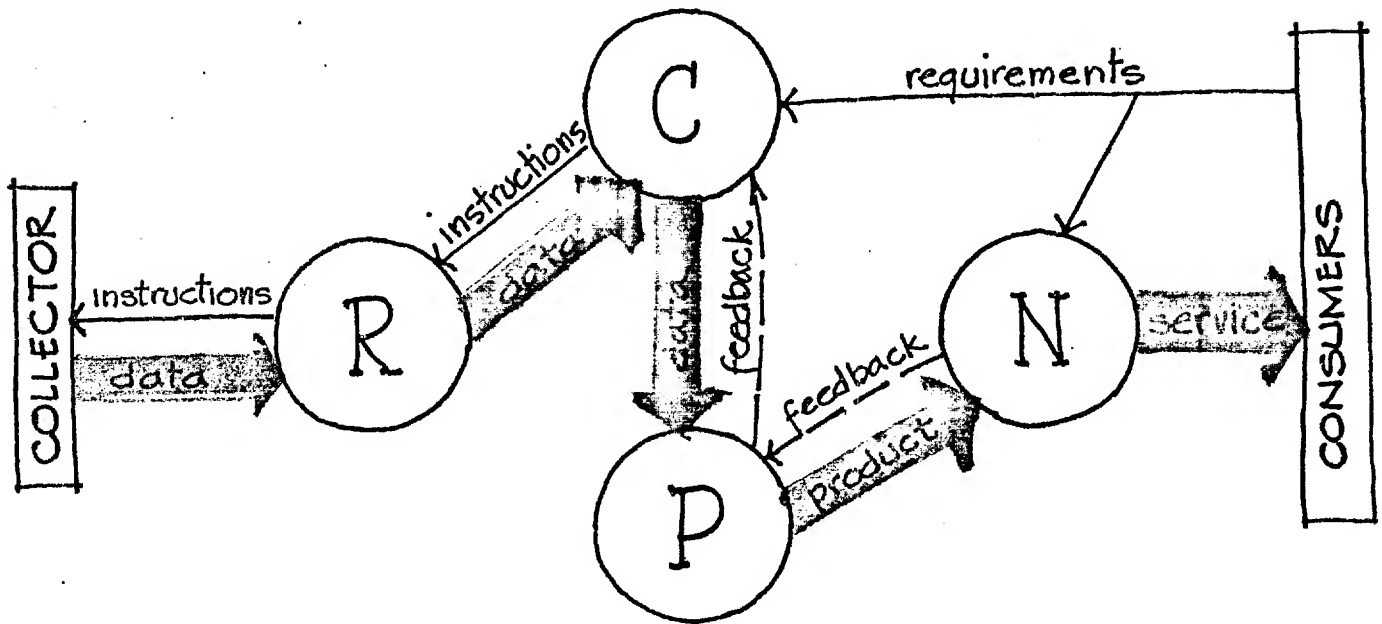
Locations near airports and heavy air traffic corridors are undesirable; locations susceptible to sonic boom and explosion shock waves are unacceptable. In addition, Activity R requires a location in an area with a very low ambient electromagnetic energy level.

Acreage for buildings is based on an assumption of three story buildings. Acreage for parking is based on average requirements at the fringe of Washington Metropolitan area. If the sites to be selected have inadequate housing and public transportation, the parking acreage requirement will increase.

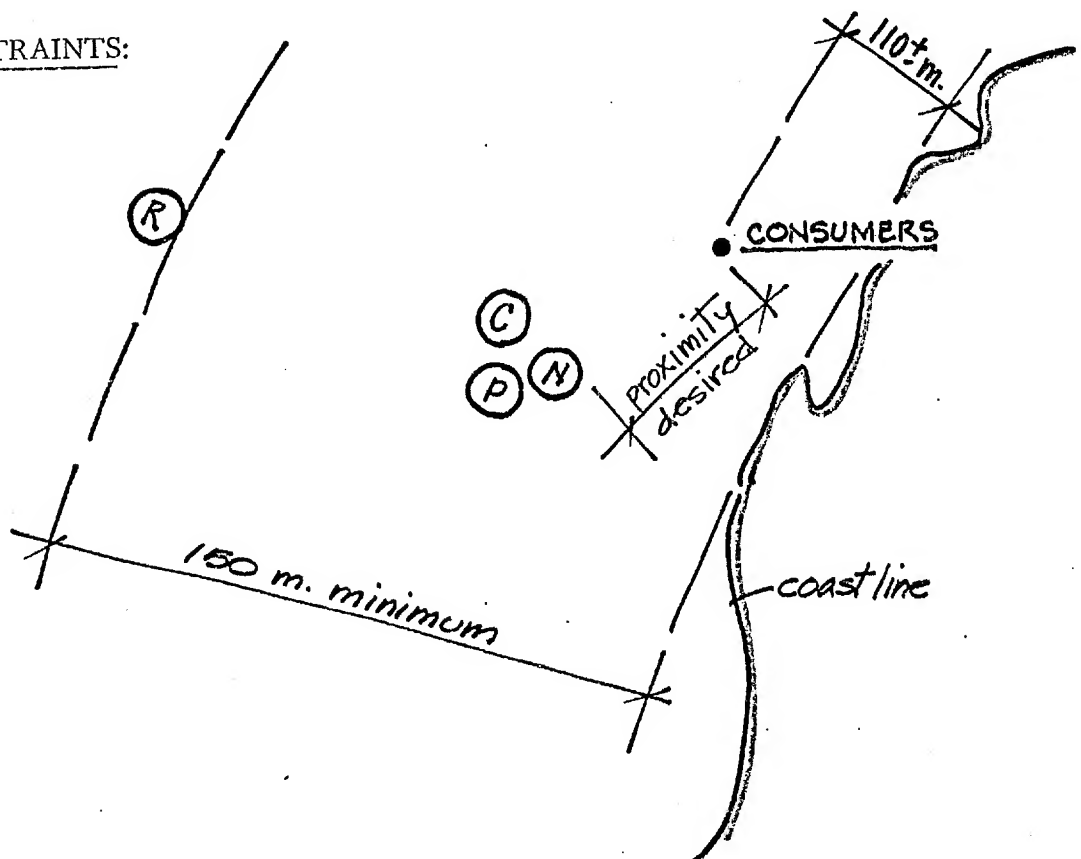
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SYSTEM INTERACTIONS:



SITE RESTRAINTS:



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